Internat pplication No PCT/18 U3/01754

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 CO7D413/14 A61K31/422 A61P31/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC $\frac{7}{2}$ CO7D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

CHEM ABS Data, EPO-Internal

C. DOCUM	ENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	
	where appropriate, or the relevant passages	Relevant to claim No.
X	WO 2003 027083 A (MERCK & CO., INC., USA; KYORIN PHARMACEUTICAL CO., LTD.) 3 April 2003 (2003-04-03) claim 6; example 134	1,9-14, 21-23
X	WO 99 64417 A (ZENECA LIMITED, UK) 16 December 1999 (1999-12-16) Claims and compounds of ex. 3, 11, 13, 15, 17, 26, 28, 31, 32, 34, 59, 131, 133, 137 and 167.	1,9-14, 21-23
X	WO 97 30995 A (ZENECA LTD., UK; GRAVESTOCK, MICHAEL BARRY) 28 August 1997 (1997-08-28) cited in the application claims, compounds of examples 12-13, 25-26, 37-38 and several compounds of table A p. 79 and table B p.81-82	1,2,6, 9-15,19, 21-24, 28,30-32
	_/	

Further documents are listed in the continuation of box C.	X Patent family members are listed in annex.
Special categories of cited documents:	
A document defining the general state of the art which is not considered to be of particular relevance	*T* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier document but published on or after the international filing date	"X" document of particular relevance: the claimed invention
'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance: the claimed invention
O document referring to an oral disclosure, use, exhibition or other means	cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled
"P" document published prior to the international filing date but later than the priority date claimed	in the art. *&* document member of the same patent family
Date of the actual completion of the International search	Date of mailing of the international search report
25 November 2003	21/01/2004
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2	Authorized officer
NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3016	Gregoire, A

Internati oplication No PCT/18 U3/01754

0.40		PCT/1B U3/01754
C.(Continu Category °	ation) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages	
———	Ondation of Goodinesit, with molection, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2000 021960 A (ZENECA LIMITED, UK) 20 April 2000 (2000-04-20) cited in the application claim 6; example 47	1,9-14, 21-23
X	WO 99 10342 A (ZENECA LIMITED, UK) 4 March 1999 (1999-03-04) claims 1,2	1,9-14, 21-23
X	WO 97 09328 A (UPJOHN CO., USA;HUTCHINSON, DOUGLAS, K.; ENNIS, MICHAEL D.; HOFFMAN, R) 13 March 1997 (1997-03-13) claims 1,2	1,9-14, 21-23
X	WO 2003 072575 A (ASTRAZENECA AB, SWED.; ASTRAZENECA UK LIMITED) 4 September 2003 (2003-09-04) Intermediates 54 and 57 on pages 107 and 111	1,21-23
X	WO 2002 096916 A (ASTRAZENECA AB, SWED.; ASTRAZENECA UK LIMITED) 5 December 2002 (2002–12–05) Intermediates of steps 4 and 5 page 10	1,21-23

Inte nal application No. PCT/IB 03/01754

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)	
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:	
1. Y Claims Nos	
1. X Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:	
Although claims 11-20 are directed to a method of treatment of the human/animall body, the search has been carried out and based on the alleged effects of the compound/composition.	
2. X Claims Nos.: 1-7(part), 9-34(part) because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:	
see FURTHER INFORMATION sheet PCT/ISA/210	
· 	
3. Light Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).	
The second and third sentences of fulle o.4(a).	
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)	
This International Searching Authority found multiple inventions in this international application, as follows:	
mo mornational dealerming realismy round multiple inventions in this international application, as follows:	
1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.	
2 As all searchable claims could be corrobed without asset in all the constitution as a different to the constitution of the c	
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.	
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report	
covers only those claims for which fees were paid, specifically claims Nos.:	
	;
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:	
resultied to the invention list mentioned in the claims; it is covered by claims Nos.:	ĺ
Remark on Protest The additional search fees were accompanied by the applicant's protest.	
No protest accompanied the payment of additional search fees.	
	ĺ

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: 1-7(part), 9-34(part)

Claims 1-7 and 9-34, in as far as the expressions "prodrugs" and "metabolites" are explicitly or implicitly concerned, is so unclear (Article 6 PCT) that a meaningful international search is impossible with regard to these expressions.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

Internal opplication No PCT/18 03/01754

					PC1/.	ικ 03/01754
cite	Patent document ed in search report		Publication date		Patent family member(s)	Publication date
WC	2003027083	Α	03-04-2003	WO US	03027083 A1 2003125367 A1	03-04-2003 03-07-2003
WC	9964417	 A	16-12-1999	AU	753988 B2	31-10-2002
				ΑU	4157199 A	31-10-2002
				BG	105001 A	30-12-1999
				BR	9910971 A	28-09-2001
				CA	2333332 A1	13-02-2001
				CN	1311787 T	16-12-1999
				EE	200000707 A	05-09-2001
				EP	1082323 A2	15-04-2002
				WO	9964417 A2	14-03-2001
				HU	0103082 A2	16-12-1999
				JP	2002517498 T	28-10-2002
				NO	20006152 A	18-06-2002
				NZ	508174 A	02-02-2001
				PL	345162 A1	31-10-2003
	•			SK	18362000 A3	03-12-2001
				TR	200003595 T2	11-06-2001
				ÜS	200003393 72 2003144263 A1	23-07-2001
				US	6617339 B1	31-07-2003
				ZA	200006694 A	09-09-2003 18-02-2002
						10-02-2002
MO	9730995	Α	28-08-1997	ΑU	1805397 A	10-09-1997
				EΡ	0882042 A1	09-12-1998
				WO	9730995 A1	28-08-1997
				JP	11514662 T	14-12-1999
				US	2002133022 A1	19-09-2002
				US	6271383 B1	07-08-2001
				US	6365751 B1	02-04-2002
				US	5981528 A	09-11-1999
				ZA	9701469 A	25-08-1997
WO	2000021960	Α	20-04-2000	AU	754123 B2	07-11-2002
				ΑU	6113199 A	01-05-2000
				BR	9914379 A	07-08-2001
				CA	2342623 A1	20-04-2000
				CN	1322203 T	14-11-2001
				ΕP	1121358 A1	08-08-2001
				WO	0021960 A1	20-04-2000
				HU	0103929 A2	29-07-2002
		_		JP	2002527439 T	27-08-2002
		•		NO	20011738 A	07-06-2001
				NZ	510211 A	30-05-2003
				US	2003207899 A1	06-11-2003
				ZA	200102659 A	01-07-2002
WO	9910342	Α	04-03-1999	EP	1005468 A1	07-06-2000
				WO	9910342 A1	07-06-2000 04-03-1999
				ĴΡ	2001514178 T	11-09-2001
				US	6605630 B1	12-08-2003
	0700000					
	9709328	Α	13-03-1997	AT	207487 T	15-11-2001
WO				AU	716493 B2	24-02-2000
MO.					6710100	
ΝO				AU	6718196 A	27-03-1997
ΝO				BR	9610474 A	02-03-1999
MO						

Internati pplication No
PCT/1B 03/01754

Patent document cited in search report	Publication date		Patent family member(s)	Publication date
WO 9709328 A		CZ	9800493 A3	12-08-1998
		DE	69616366 D1	29-11-2001
		DE	69616366 T2	04-07-2002
		DK	856002 T3	11-02-2002
		ΕP	0856002 A1	05-08-1998
		ES	2165516 T3	16-03-2002
		FI	980452 A	27-02-1998
		HK	1014946 A1	01-03-2002
		HU	9901979 A2	28-02-2000
		JP	11512386 T	26-10-1999
		NO	980855 A	30-04-1998
		NZ	315469 A	28-01-2000
		PL	325152 A1	06-07-1998
		PT	856002 T	29-04-2002
		RU	2175324 C2	27-10-2001
		SI	856002 T1	30-04-2002
		SK	19598 A3	04-11-1998
		TW	419468 B	21-01-2001
		WO	9709328 A1	13-03-1997
		US	6166056 A	26-12-2000
		US	6051716 A	18-04-2000
		US	6043266 A	28-03-2000
		US	6313307 B1	06-11-2001
		US	5968962 A	19-10-1999
		US	6358942 B1	19-03-2002
		ZA	9606935 A	16-02-1998
WO 2003072575 A	04-09-2003	WO	03072575 A1	04-09-2003
WO 2002096916 A	05-12-2002	WO	02096916 A1	05-12-2002